

Application Number: 09/498,062
Filing Date: February 4, 2000
Attorney Docket Number: 5788.0124.00

ABSTRACT OF THE DISCLOSURE

A high temperature superconducting cable includes a tubular support and a plurality of superconducting tapes. The superconducting tapes include a superconducting material enclosed in a metal covering, spirally wound onto the tubular support to form at least an electroinsulated, thermally-insulated, and refrigerated superconducting layer. The superconducting tapes also include at least a metal strip coupled to the metal covering. A process for manufacturing high temperature superconducting cables is also disclosed.